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Philipp

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(54) **PROCESS FOR OBTAINING ENERGY FROM ORGANIC-CONTAINING WASTE MATERIALS**

B09B 3/0041 (2013.01); **B09B 3/0083** (2013.01); **Y02E 50/30** (2013.01)

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

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A process is disclosed for obtaining energy from organic-containing waste materials by (1) precomminuting the waste material and determining its ratio of carbonaceous material and silicatic material; (2) further measuring the constituents in the waste material to determine the ratio of carbonaceous material and silicatic material; (3) maintaining the ratio of carbonaceous material and silicatic material at about 90% to 10%; (4) adding phyllosilicate to the waste material, separating the resulting mixture into solid, liquid and gaseous phases, and pelletizing the solid phase; (5) pyrolyzing the pellets forming a second gaseous phase and a second solids phase; and (6) supplying the second gaseous phase to a tank, and separating the second solids phase into end product carbonaceous and silicatic materials, and recovering the carbonaceous materials.

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(52) **U.S. Cl.**

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5 Claims, 1 Drawing Sheet

